INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004711

Int.Cl7	G02B6/12				
	rnational Patent Classification (IPC) or to both national	classification and IPC			
B. FIELDS SEARCHED					
Int.Cl ⁷	C30B29/06, C01B33/00-33/46	68, H01L21/306-21/308,			
Jitsuyo Kokai Ji	tsuyo Shinan Koho 1971-2004 Jit	roku Jitsuyo Shinan Koho tsuyo Shinan Toroku Koho	1994-2004 1996-2004		
WPI(DIA	ase consulted during the international search (name of daloG), JOIS (JICST FILE)	ata base and, where practicable, search te	rms usea)		
C. DOCUMEN	TS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.		
X	JP 11-242125 A (Kyocera Corp. 07 September, 1999 (07.09.99) Par. Nos. [0035], [0050], [00 [0080]; Figs. 2, 16, 18 & US 6277662 B1 & US	,	1-12		
X Y	JP 2000-47045 A (Kyocera Corp 18 February, 2000 (18.02.00), Par. Nos. [0026] to [0037]; F & US 6493496 B2 & US & US 2001/0002221 A1		1-5 6-12		
X Y	JP 11-14848 A (Kyocera Corp.) 22 January, 1999 (22.01.99), Par. Nos. [0025] to [0029]; F (Family: none)		1-5 6-12		
			<u> </u>		
Further documents are listed in the continuation of Box C. See patent family annex.					
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "X"		 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive 			
"L" document w cited to esta special reaso	which may throw doubts on priority claim(s) or which is ablish the publication date of another citation or other on (as specified)	step when the document is taken alone "Y" document of particular relevance; the considered to involve an inventive combined with one or more other such	claimed invention cannot be step when the document is		
"O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		being obvious to a person skilled in the "&" document member of the same patent	e art family		
Date of the actual completion of the international search 18 June, 2004 (18.06.04)		Date of mailing of the international search report 06 July, 2004 (06.07.04)			
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer			
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT				
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
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